Title (en)

Catalyst system for improved stereoselectivity and broader molecular weight distribution in polymerization of olefins

Title (de)

Katalysatorensysteme zur Polymerisation von Olefinen mit verbesserter Stereoselektivität und breiter Molekulargewichtsverteilung

Title (fr)

Systèmes catalytiques pour la polymérisation des oléfines ayant une stéréosélectivité améliorée et une large distribution du poids moléculaire

Publication

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Application

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Priority

US 22391694 A 19940406

Abstract (en)

[origin: EP0676419A1] The present invention provides a catalyst system and a process for the polymerization of olefin that exhibits improved selectivity and broader molecular weight distribution in the polymer product. The catalyst system includes a conventional supported Ziegler-Natta catalyst in combination with a mixture of at least two electron donors, both having the general formula SiRm(OR')4-m where R is selected from the group consisting of an alkyl group, a cycloalkyl group, an aryl group and a vinyl group; R' is an alkyl group; and m is 0-3, wherein when R is an alkyl group, R may be identical with R'; when m is 0, 1 or 2, the R' groups may be identical or different; and when m is 1, 2 or 3, the R groups may be identical or different. This catalyst system produces polypropylene having xylene solubles of 1-7 to 5.1 wt% and a molecular weight distribution of about 10.

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Cited by

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